

CZECHOSLOVAKIA / Analytical Chemistry--Analysis of inorganic substances.

E-2

Abs Jour : Ref Zhur - Khimiya, No 14, 1959, No. 49277

0.1 M in $\text{Ni}(\text{NO}_3)_2$, 25-ml portions are taken and placed in two 25-ml flasks, NaOH is added to pH ca. 6, 10 ml of 2 M ethylenediamine tartrate solution and 2 ml of 1 M $\text{K}_4\text{P}_2\text{O}_7$ solution are added, and the pH is adjusted again to 6 with NaOH (the precipitate which is formed is dissolved by shaking). A standard solution of CuSO_4 and $\text{Fe}_2(\text{SO}_4)_3$ is added to one of the flasks after which both flasks are filled up to the mark with water and the contents are analyzed polarographically. When Cu and Fe are determined in aluminum and in its salts, 1.2 - 1.4 gm samples are weighed out on the assumption that the Cu and Fe contents are 0.5 and 1%, respectively, and the analysis is continued as described above. For Communication VI see RZhKhim, No 17, 1958, 57187. --
P. Zuman

Card 2/2

E-30

COUNTRY : Czechoslovakia E-2
CATEGORY :
ABS. JOUR. : RZhKhim., No. 1959, No. 86102
AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : in some Ce-alloys, cerite metal, by-products of Ce electrolysis, and in monazite sand; it is possible to determine 1% Ce in iron and zinc, 3% Ce in aluminum, 5% Ce in vanadium and nickel, 0.1% Ce in thorium and uranium (I + II background), 0.5% Ce in yttrium, and 5% Ce in lanthanum and scandium. Communication VI see RZhKhim, 1959, No 23, 81925. -- Karel Kamen.

CARD: 3/3

96

COUNTRY : Czechoslovakia E-2
CATEGORY :
ABS. JOUR. : RZKham., No. 1959, No. 8157
AUTHOR : Beran, P.; ~~Dolezal, J.~~
INST. :
TITLE : Use of Oscillographic Polarography in Quantitative Analysis. IX. Detection and Determination of Rhodium in Presence of Platinum, *
ORIG. PUB. : Chem. listy, 1958, 52, No 12, 2403-2404;
Collect. Czechosl. Chem. Commun., 1958, 24, **
ABSTRACT : It was found that in 0.1 M HCl and 0.6 M KCl solutions, in the presence of Rh ions, characteristic serrations are found on the anode portion of (dE/dt)-E curves. This effect caused, apparently, by catalytically evolved hydrogen is observed with as little as 0.02% Rh in presence of Pt, and 0.005% Rh in presence of Pd and Au. Height of serrations is directly proportional to Rh concentration in the range of 0.5-25 μ g per 20 ml solution. On this basis it is possible to determine Rh by the method of calibration curve or standard addition. The latter method is better suited for analysis of solutions containing Pt, Pd and Au, since presence of these metals affects height of serrations.
CARD: 1/2
* Palladium, and Gold.
** No 4, 1341-1343. 102

DOLEZAL, J.

"Radioactive sources of light." P. 398.

SLABOPROUDY OBZOR. (Ministerstvo presneho strojirenstvi, Ministerstvo spoju a Vedecka technicka spolecnost pro elektrotechniku pri CSAV). Praha, Czechoslovakia, Vol. 20, No. 6, June 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959.
Uncla.

COUNTRY	: Czechoslovakia	B-12
CATEGORY	:	
ABS. JOUR.	: RZKhim, No. 5 1960, No.	17169
AUTHOR	: Dolezal, J. and Novak, J.	
INST.	: Not given	
TITLE	: On the Polarographic Behavior of Cerium(III) and Cerium(IV)	
CRIG. PUB.	: Collection Czechoslov Chem Commun, 24, No 7, 2182-2190 (1959)	
ABSTRACT	: See RZhKhim, 1959, No 5, 14797.	

CARD: 1/1

56

DOLEZAL, J.; DRAHONOVSKY, J.; ZYKA, J.

Use of metal reducers and amalgams in chemical analysis. I. Silver
reducer. In German. Coll.Cs.Chem. 24 no.11:3649-3653 N '59.

(KHAJ 9:5)

1. Institut für analytische Chemie, Karluniversität, Prag.
(Reduction) (Analysis (Chemistry)) (Silver) (Amalgams)

DOLEZAL, J.; MOLDAN, B.; ZYKA, J.

Use of metal reducers and amalgams in chemical analysis. II. Reflex effect of molybdenum. In German. Coll. Cz. Chem. 24 no.11:3769-3776 N '59. (EAI 9:5)

1. Institut für analytische Chemie, Karlsuniversität, Prag.
(Molybdenum) (Chemistry, Analytic) (Amalgams) (Reduction)

DOLEZAL, J.

Use of oscillographic polarography in quantitative analysis.
IX. Detection and determination of rhodium in the presence
of platinum, palladium, and gold. J. Dolezal, Benja and Jan
Dolezal (Karlova Univ., Prague). *Chem. Listy* 52, 2406-7
~~Collection Czechoslov. Chem. Commun.~~ 24, 1341-3 (1959)
cf. C.A. 51, 17528a; 52, 13533d. —Rh⁺⁺⁺ in M HCl is
detected by a sharp spike on the anodic part of the curve,
due to a catalytic effect on H evolution. The reaction is
very sensitive even in the presence of NaCl, Pt, Pd, and Au.
The height of the spike is proportional to the Rh⁺⁺⁺ concn.
and can be used for a quant. detn. either by using a calibration
curve or a standard sample. The detn. is carried out in
a soln. 0.1M in HCl and 0.6M in NaCl. H. Newcomb

Distr: 1E2c

5
1

Use of amalgams in chemical analysis. Jan Dolejal,
Bedrich Moldan, and Jaroslav Zítka (Karlov Univ.,
Prague). *Chem. Abstr.* 53, 308-308 (1930). Amalgams of
Zn, Cd, Sn, Pb, and BiO are used for the detn. of Fe, Ti, V,
U, W, Mo, Cr, Sn, Cu, Ni, Ba, PO, ClO, BrO,
IO, ClO, IO, HSO, Fe(CN)₆. 81 references.
M. Haddley

DOLEZAL, J.; JANACEK, K.

Use of oscillographic polarography in quantitative analysis. XI.
Detection and determination of arsenic, antimony, and tin in mixtures.
Coll Cz chem 25 no.3:885-889 Mr '60. (EFAI 9:12)

1. Institut fur analytische Chemie, Karlsuniversitat, Prag.
(Oscillograph)
(Polarograph and polarography)
(Arsenic)
(Antimcny)
(Tin)

ZAVREL, Ivo; POLEZAL, Jan

Our experience with collateral vascular connection in the treatment of secondary thrombosis of the veins of the lower extremities. Rozhl. chir. 39 no.5:327-338 My '60.

I. I. chirurgická klinika lékařské fakulty v Brně, přednosta
prof. MUDr. J. Podlaha.
(THROMBOPHLEBITIS surg.)

DOLEZAL, Jan; TRYB, Richard

Prevention of habitual shoulder dislocations. Rozhl.chir. 29
no.12:813-817 D '60.

1. I.chirurgicka klinika University v Brne, prednosta prof.
MUDr. Josef Podlaha.
(SHOULDER fract & disloc)

CHANG JE-SIA; DOLEZAL, J.; ZYKA, J.

Use of amino compounds in the polarography of inorganic compounds.
VIII. Polarographic behavior of bi- and trivalent cobalt in glutamic-
acid medium. Coll Cs Chem 25 no.12:3143-3152 D '60.
(EEAI 10:9)

1. Institut für analytische Chemie, Karlsuniversität, Prag.

(Amines) (Polarigraph and polarography) (Cobalt)
(Glutamic acid)

ADAM, I.; ~~DOLEŽAL, J.~~ [Doležal, J.]; ZYKA, Ya. [Zyka, J.]

Use of hydroxy acids in polarographic analysis. Report No. 1: Half-wave potentials of certain ions in solutions of sodium salts of lactic, malic, and salicylic acids. Zhur. anal. khim. 16 no. 4:395-398 J1-Ag '61.
(MIRA 14:7)

1. Charles University, Prague, Czechoslovakia.
(Polarography) (Acids, Organic)

DOLEZAL, Jan; ZAVREL, Ivo

Differential diagnosis and unusual causes of jaundice. Roshl.chir.
40 no.1:9-15 Ja '61.

1. I.chirurgiska klinika v Brno, prednosta prof.dr. J.Podlaha.
(JAUNDICE OBSTRUCTIVE)

DOLEZAL, JAN (MD)

SURNAME, Given Names

(5)

Country: Czechoslovakia

Academic Degrees:

Affiliation: First Clinic of Surgery of J.Ev. Purkyne University (I. chirurgicka klinika University J.Ev. Purkyne), Brno; Director: Prof J. PODLAHA, MD.

Source: Prague, Prakticky Lekar, Vol 41, No 10, 1961, pp 455-458.

Data: "Diabetic Gangrene."

Authors: ZAVREL, Ivo, MD

DOLEZAL, Jan, MD

LANGER, J., MUC /Candidate of Medicine/

REHUREK, J. MUC

870 981643

DOLEZAL, J.

27

Prague, Collection of Czechoslovak Chemical Communications, Vol. 27, No. 4, April 1964 (continued)

26. Organic Quantitative Analysis. Part XIII. The Micro Determination of Carbon in Organic Substances by Means of Measuring the Electric Conductivity and by Using CO_2 as a Construction Catalyst. M. VEJNAR, J. JANDRA and L. JELNY of the Research Institute for Organic Syntheses, Bratislava-Spitavy; pp 1031-1037.

27. Methods of Separating Natural Substances. Part V. The Separation of Steroids in Acetone from Propyl Sulfate. J. HRAJAK, J. BUDIK, M. JEDLIK and Z. CIZEK, Research Institute for Natural Drugs, Prague; pp 1037-1044.

28. Spectrophotometric Determination of Hydroquinone with the Modified Gomel and Nefeloid Method. J. FRYBATA of the Construction Station at the [National] Faculty in Brno; pp 1044-1046.

29. Gas-Fluid Chromatography. The Relation between the Desired Elution Volume and the Molecular Weight of Organic Compounds. L. S. VONDRÁK, Chair of Organic Technology at the Chemical Technological Institute in Prague; pp 1046-1048.

30. Photooxidation of an Oxidized Component of Wood Lignin. Part II. Determination of the Ratios of the Layers of Copolymerization I and III, Following Paper-Chromatographic Separation. V. HEDVÍČEK, Institute for Work Systems and Occupational Diseases, Prague; pp 1048-1051.

31. Nucleic Acid Components and Their Analogs. Part VIII. Reaction of Thymine and Cytosine with Sulfoxide with Sulfur Compounds. H. FRYBATA and J. VONDRÁK, Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague; pp 1051-1056 (English abstract).

32. Synthesis of 3-Diaryloxindole. L. ŠKOC, Department of Organic Syntheses at the Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague; pp 1055-1058.

33. Triast Substances. Part III. Tetrastin, the Higher Principle of *Samolium vulgare* L. H. ŠKOC, Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague; pp 1058-1063 (English abstract).

DOLEZAL J.; NOVOZAMSKY, I.; ZYKA, J.

Indirect complexometric determination of sodium. Coll Cz Chem 27 no.8:
1830-1834 Ag '62.

1. Institut für analytische Chemie, Karls-Universität, Prag.

ADAM, J.; DOLEZAL, J.

Polarography and formation of some quinoid compounds by oxidation of 1,2-dihydroxybenzene-3,5-disulfonic acid with gold(III) and silver ions in alkaline medium. Coll Cz Chem 27 no.11:2527-2534 N '62.

1. Petrographisches Institut und Institut für analytische Chemie, Karlsuniversität, Prag.

ADAM, J; DOLEŽAL, J.

Czechoslovakia

Petrographic Institute and the Institute for
Analytical Chemistry, Charles University --
Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communi-
cations, No 11, 1962, pp 2527-2533

"Polarography and the Building of a Chinoid Combination
through Osydation of 1,2-Dihydroxybenzol-3,5-Di-
sulfon Acide with Gold (III) and Silver Ions
in an Alkaline Environment."

BERAN, Premysl, dr.; BURIAN, Milos; DOLEZAL, Jan, doc., dr.

Use of oscillographic polarography in quantitative analysis.
Pt. 16. Chem zvesti 17 no.7:517-523 '63.

1. Katedra analyticke chemie, Karlovy university Praha 2,
Albertov 2030.

KOTOUCEK, M.; DOLEZAL, J.; ZYKA, J.

Selective test and volumetric gold determination.
Coll Cz Chem 28 no.2:521-524 F '63.

1. Institut für organische, analytische und physikalische
Chemie, Palacky-Universität, Olomouc und Institut für
analytische Chemie, Karlsuniversität, Prag.

ADAMEK, P.; DOLEZAL, J.; ZYKA, J.

Contribution to the theory of polarometric titrations based on
oxidation-reduction reactions. Coll Cz Chem 28 no.8:2131-2137
Ag '63.

1. Abteilung für Instrumentalanalyse, Technische Hochschule für
Chemie, und Institut für analytische Chemie, Karlsuniversität,
Prag.

DOLEZAL, Jan

"Handbook of inorganic colorimetric analysis" by A.Dragonirecky,
V.Mayer, J.Michal, K.Rericha. Reviewed by Jan Dolezal. Chem prum
14 no.4:223 Ap '64.

1. Chair of Analytical Chemistry, Faculty of Natural Sciences,
Charles University, Prague.

BERAN, P.; DOLEZAL, J.; PACAK, P.

Use of oscillographic polarography in quantitative analysis.
Pt.22. Chem zvesti 18 no.5/6:333-340 '64.

1. Institute of Analytical Chemistry of the Faculty of Natural
Sciences, Charles University, Prague.

ZACHAROV, V.A. [Zakharov, V.A.]; DOLEZAL, J.; ZYKA, J.

Application of oscillographic polarography in quantitative analysis. Pt.20. Coll Cz Chem 29 no.9:2240-2242 S '64.

1. Kasachische Staatsuniversitat, Alma-Ata, UdSSR (for Zakharov).
2. Institut fur analytische Chemie, Karlsuniversitat, Prague (for Dolezal and Zyka).
3. Member, Advisory Board, "Collection of Czechoslovak Chemical Communications" (for Zyka).

LOLEZAL, J.; LUKSYTE, E.; RYBACEK, V.; ZYKA, J.

Reductometric titration with iron (II) sulphate in triethanol-
amine medium. Chem Cz Chem 29 no.11:2597-2606 N '64.

1. Institut für analytische Chemie, Karlsuniversität, Prague.
2. Present address: Chemische Fakultät, Universität, Vilnius,
Lithuania (for Luksyte).

BERKA, A.; DOLEZAL, J.; ZYKA, J.

Analytical examination of the reaction between hexacyanoferrates (III) and hydroquinone. Coll Cz Chem 30 no.2:695-607 F '65.

1. Institute fur analytische Chemie, Karls-Universität, Prague.
Submitted April 6, 1964.

CZECHOSLOVAKIA

CCMI, Sun-Pao; DOLEZAL, J.; KALVODA, R.; ZYKA, J.

1. Institute for Analytic Chemistry, Karlova Univ. (Institut für analytische Chemie, Karlsuniversität); 2. J. Heyrovsky Polarographic Institute, Czechoslovak Academy of Sciences (Polarographisches Institut J. Heyrovsky, Tschechoslowakische Akademie der Wissenschaften), Prague

Prague, Collection of Czechoslovak Chemical Communications, No 12, Dec 1965,

"Use of oscillographic polarography in quantitative analysis. Part 23: Experiments in melting."

4

DOLEZAL, J.

Universal hospital bed designed on the brick-box system.
Fozhl. chir. 44 no.11:784-786 N '65.

1. Vyzkumny ustav traumatologicky v Brne.

CZECHOSLOVAKIA

STRAPELDA, F; DOLEZAL, J; FOKORNY, P

Department for Instrument Analysis, Technical Institute
of Chemistry (Abteilung für Instrumentalanalyse, Tech-
nische Hochschule für Chemie), Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communications,
No 7, July 1966, pp 2521-2529

"Electrochemical analyzer of hydrogen cyanide in the
atmosphere."

L 34439-66 EWP(t)/ETI IJP(c) JD/JG

ACC NR: AP6026225

SOURCE CODE: CZ/0008/65/000/012/1472/1476

AUTHOR: Pospisil, Milan; Dolezal, Jan

27
E

ORG: Department of Nuclear Chemistry, Faculty of Technical and Nuclear Physics, CVUT, Prague (Katedra Jaderné chemie, Fakulta technická a jaderné fyziky CVUT)

TITLE: Complexometric determination of zinc and chromium in their mixture using xylenol orange as indicator

SOURCE: Chemické listy, no. 12, 1965, 1472-1476

TOPIC TAGS: chemical indicator, chemical identification, chromium, zinc, ion concentration, titrimetry

ABSTRACT: The method is suitable for the determination of zinc and trivalent chromium ions without their separation or masking. Zn is determined in a solution buffered at pH = 5 by acetate by means of titration with lead nitrate using xylenol orange as indicator. This titration is conducted at cold. When the titration is conducted after boiling the sample for 20 minutes, both metals are determined by titration with lead nitrate. Good results are obtained within the range of Zn : Cr ratios of 177:1 and 1:45. The authors thank Docent, Doctor J. Cabicar and Doctor V. Suk, Department of Analytical Chemistry, Faculty of Natural Sciences, KU, for their advice and interest in this work. Orig. art. has: 1 table. [JPRS: 34,669]

SUB CODE: 07 / SUBM DATE: 01Dec64 / ORIG REF: 003 / C/TI REF: 005
Card 1/1 *JE*

0916

1773

L 33270-66

ACC NR: AP6023811

SOURCE CODE: CZ/0014/66/000/001/0006/0007

AUTHOR: Dolezal, Jiri (Engineer)

34
B

ORG: none

TITLE: Frequency corrector with five control elements

SOURCE: Sdelovaci technika, no. 1, 1966, 6-7

TOPIC TAGS: electronic component, frequency control, circuit design

ABSTRACT: The article presents a description, the circuits and the calculations of a frequency corrector with five control elements. The operating procedure is explained, and diagrams of its characteristics and a listing of its parameters are presented. Orig. art. has: 5 figures and 4 formulas. [JPRS]

SUB CODE: 09 / SUBM DATE: none

Card 1/1

pl

0975

1540

L 33691-66 EWP(j) RM/TW

SOURCE CODE: CZ/0043/65/000/011/0846/0849

ACC NR: AP6024208

AUTHOR: Grivnak, Jan--Grivnyak, Ya. (Engineer; Candidate of sciences; Bratislava);
Stota, Zdenek--Shtota, Z. (Engineer; Bratislava); Dolezal, Josef--Dolezal, Ya. (Engineer; Bratislava) 31
B

ORG: Research Institute for Agricultural Chemical Technology, Bratislava (Vyskumny
ustav agrochemickej technologic)

TITLE: Separation of alkyl carbonates of 2-phenyl-4,6-dinitrophenol¹ by gas
chromatography / / /

SOURCE: Chemické zvesti, no. 11, 1965, 846-849

TOPIC TAGS: gas chromatography, chemical separation, organic nitro compound,
analytic chemistry, chemical purity

ABSTRACT: Direct determination of n- and iso-alkyl (C1-C8)-
carbonates of 2-phenyl-4,6-dinitrophenols was studied by means
of gas chromatography. Polyethylene-glycol adipate, Apreson L,
and silicon grease SE 301 were used as anchor phases, nitrogen
as carrier gas, and detection was made by a flame ionization
detector. Practically, the method is suitable for determination
of purity and the analysis of some products. Orig. art. has: 2 figures
and 1 table. [JPRS]

SUB CODE: 07 / SUBM DATE: 04Mar65 / ORIG REF: 002 / OTH REF: 012
Card 1/1 PB 1059

DOLEZEL, Lubomir; PRUCHA, Jan

Determining the information content of the Czech language. Sdel
tech 11 no.1:10-11 Ja '63.

DOLEZAL, L.

"Main principles for the design of fish ladders." p. 208.

VODNI HOSPODARSTVI. (Ustredni sprava vodniko hospodarstvi). Praha,
Czechoslovakia, No. 5, May 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6,
August 1959.
Uncla.

HAINDL, Karel, inz., C.Sc.; DOLEZAL, Ludvik, inz.; KRAL, Jindrich

Contribution to the hydraulics of a shaft spillway. Vodohosp cas
10 no.3:288-314 '62.

1. Vyzkumny ustav vodohospodarsky, Praha.

HAINDL, Karel, inz., C.Sc.; DOLEZAL, Ludvik, inz.; KRAL, Jindrich

Contribution to the shaft spillway hydraulics. Part 2.
Vodohosp cas 10 no.4:370-381 '62.

1. Vyskumny ustav vodohospodarsky, Praha.

DOLEZAL, Ludvik, inz.

Preparatory study for the construction of movable weir on Elbe
River at Pardubice. Vodni hosp 13 no.1:38 '63.

DOLEZAL, Marian

Evaluation of the antiglobulin reaction for detecting incomplete crypt-agglutinins in infectious diseases, with special reference to its specificity. Arch. immun. ther. exp. 11 no.1/2:173-188 '63.

1. Clinic of Infectious Diseases, School of Medicine, Cracow.
(ANTIBODIES) (SERODIAGNOSIS)

KWIATKOWSKI, Wladyslaw; DOLEZAL, Marta

Difficulties in the clinical evaluation of the pathogenic properties of the yeast *Candida albicans*. Pol. tyg. lek. 19 no.3: 101-103 20 Ja'64

1. Z II Kliniki Chorob Wewnetrznych AM w Krakowie; (p.o.kierownika: doc.dr. St.Kirchmayer) i z Kliniki Chorob Zakaznych AM W Krakowie (kierownik: prof.dr. Wl.Fejkiel).

*

DOLEZAL, Milos, inz.

Electric discharge valve for generator overvoltage protection.
Energetika Cs ll no.7:344-346 JI '61.

DOLEZAL, Milos, inz.

Spark gap of valve lightning arresters. Energetika Cz
12 no.5:263-264 My '62.

1. Statni vyzkumny ustav silnoprude elektrotechniky,
Bechovice.

DOLEZAL, Milos, inz.

New types of valve lightning arresters 500, 850 and 1000 V.
Elektrotechnik 17 no.7:195-196 J1 '62.

1. Státní výzkumný ústav silnoproude elektrotechniky,
Bechovice.

DOLEZAL, Milos, ins., C.Sc.

Over-voltage protection of distribution transformers. Energetika
Cz 13 no.2:91-93 F '63.

1. Statni vyzkumny ustav silnoproude elektrotechniky, Bechovice.

DOLEZAL, Milos, inz.

Explosion protection for valve lightning arrestors. Energetika Cz 11
no. 51244-245 My '61.

DCLEZAL, Milos, inz., CSc.

Mechanism of alternating current arc extinction in high-voltage switches. Energetika Cs 13 no.1:29-31 Ja '63.

1. Vyzkumny ustav silnoprude elektrotechniky, Bechovice.

L 17496-63
SSE Pt-I

HW(1)/WHP(q)/EWT(m)/BDS/ES(s)-2

AFTIC/ASD/ESD-3/IJI(C)/

JD/RH/HM

ACCESSION NR: AP3001737

2/0017/63/052/005/0238/0242

72
70

AUTHOR: Dolezal, Milos (technical science candidate, engineer)

TITLE: Dielectric strength of gases under high pressures at 50 cycles per sec

SOURCE: Elektrotechnicky obzor, v. 52, no. 5, 1963, 238-242

TOPIC TAGS: Dielectric strength, electrode dimension, electrode material, compressed gas

ABSTRACT: Experiments have been made with compressed gases up to 100 atmospheres pressure at 50 cps in order to determine their dielectric strength with electrodes of spherical shape 15, 20 and 30 mm diameter made of copper, brass, silver, stainless steel and ordinary steel. Electrodes have had a polished surface and were cleaned and degreased before each test. Gaps between electrodes measured with Johansson blocks were 0.5 mm thick and in some cases 1 mm and 2 mm. Tests were conducted with industrial grade compressed air and also with industrial carbon dioxide and hydrogen. All sizes and materials were used in case of compressed air; only 30 mm diameter copper, silver and stainless steel electrodes were used in the case of carbon dioxide and 30 mm diameter copper and stainless steel electrodes in the case of hydrogen. In the latter two cases, the air had

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I. 17496-63

ACCESSION NR: AP3001737

been evacuated down to 0.05 atmosphere pressure. Pressures were accurately measured on a 25 cm diameter calibrated manometer at 10 atmosphere pressure intervals beginning with 20 atm. pressure for commercial air and 40 atm. pressure for cases of carbon dioxide and hydrogen gases, up to 100 atmosphere pressure for air and hydrogen and below 60 atm. pressure for CO₂ gas. The speed of increase of the effective voltage was one kV/s. Measured were values of effective dielectric strength E_{min} in kV/mm against maximum pressures P_{max} . It has been found in all cases that the trend of curves is not identical at increased and decreased pressures indicating that some kind of hysteresis takes place. Tests have shown that the dielectric strength of different gases under high pressure is affected primarily by the kind of medium and electrode materials and to a lesser degree by the smoothness of the surface, clearance, and diameters of electrodes. In cases of commercial air and CO₂ the dielectric strength is about the same whereas that of hydrogen is lower. Best results were obtained with stainless steel electrodes followed by silver, copper, brass and steel. No appreciable difference in strength has been found in dry and moistened commercial air. Oxidation of the electrode surfaces causes some increase in strength. "In conclusion the author thanks K. Robensk for his effective

Card 2/3

L 17496-63

ACCESSION NR: AP3001737

collaboration." Orig. art has: 14 figures.

ASSOCIATION: SVUSE, Bechovic (State Research Institute for High Voltage
Electrical Engineering)

SUBMITTED: 2Nov62

DATE ACQ: 12Jun63

ENCL: 00

SUB CODE: PH

NO REF SOV: 000

OTHER: 003

Card 3/3

DOLEZAL, M., inz.

Electrooptical measurement of the current and voltage.
El tech obzor 53 no. 3: 150-151 Mr '64.

DOLEZAL, Milos, inz. CSc.

A freely burning arc in compressed stationary air in a large container. EI tech obzor 53 no.7:385-390 J1'64

1. State Research Institute of Heavy Current Engineering.

DOLEZAL, Milos, inz., kandidat technickych ved

Electric strength of highly compressed gases at 50 Hz. E1
tech obsor 52 no.5:238-242 My '63.

1. Statni vyzkumny ustav silnoprude elektrotechniky, Bechovice.

BOLEBAL, Milan, inz. GSc.

Cause of defects of the IV and VO valve high-pressure converters and their removal. Energetika 14 no.11:524-533 1971.

1. State Research Institute of Heavy Current Engineering, Belovice.

DOLEZAL, Milos, inz. CSc.

Overvoltage protection of cables and connected devices.
Elektrotechnik 20 no.4:99-102 Ap '65.

1. State Research Institute of Heavy Current Engineering, Bechovice.

DOLEZAL, Marta

Application of a flocculation test for serodiagnosis of moniliasis.
Med. dosw. mikrobiol. 17 no.2:157-162 '65.

1. Z Kliniki Chorob Zakaznych AM w Krakowie (Kierownik: prof. dr.
Wl. Fejkiel).

RZEPPIEIA, Edward; JASKI, Wieslaw; DOLEZAL, Marta

Effect of sigmamicin in surgical infections with special
reference to diffuse peritonitis. Pol. tyg. lek. 20 no.29:
1088-1089 19 J1 '65.

1. Z I Kliniki Chirurgicznej AM w Krakowie (Kierownik: prof.
dr. J. Bogusz) i z Kliniki Chorob Zakaźnych AM w Krakowie
(Kierownik: prof. dr. W. Wójcik).

DOLEZAL, M.

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